1/2 022 UNCLASSIFIED

PROCESSING DATE--13NOV70

TITLE--EFFECT OF TISSUE AND HUMORAL FACTURS ON VISCOUS METAMORPHOSIS OF

THROMBOCYTES -U-

AUTHOR-(02)-MARTYNOV. S.M., GROMNATSKIY, N.I.

COUNTRY OF INFO--USSR

SOURCE-VRACHEBNOYE DELU. 1970, NR 4, PP 98-100

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--THROMBOCYTE, BLOOD COAGULATION, BLOOD CELL, FATTY TISSUE, BRAIN TISSUE, MUSCLE TISSUE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1702

STEP NO--UR/0475/70/000/004/0098/0100

CIRC ACCESSION NO--APO129072

Unclassified

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

2/2 022	UNCLASSIFIED	PROCESSING D	ATE13NOV70
CIRC ACCESSION NOAP0129072 ABSTRACT/EXTRACT(U) GP-G-		S INDICATE THAT	TTSSUE
EXTRACTS (SUBCUTANEOUS FAT	TY CELLULAR TISSUE,	BRAIN MUSCLES	ANU KIDMEYS)
AND ALSO FORM ELEMENTS OF CITRATE PLASMA. THE BASIS			
EXTRACTS IS ACTIVATION OF			CO OF THIS
THROMBOGENESIS. THROMBUCY			
CELLS MAY BE THE BASIS OF FACILITY: L'VOVSKO			
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## Coatings

USSR

UDC: 546,831+546,821.824

YEMYASHEV, A. V., KILIN, V. S., MARTYNOV, S. Z., and SHAROVA, A. V.

"Pyrolytic Nitrides of Titanium and Zirconium and Areas of Their Application"

Moscow, Tsvetnyye Metally, No. 12, Dec 70, pp 30-32

Abstract: Data on the deposition of titanium and zirconium nitrides from the gas phase are discussed. Use was made of commercial zirconium and titanium tetrachloride, hydrogen, and nitrogen. The process of deposition of zirconium pyronitride takes place at 1400-2000°C, with the deposition rates sufficiently high to obtain coatings of appropriate thickness. The most favorable conditions for depositing zirconium pyroniumide are attained at a molar ratio of initial components of ErCl<sub>4</sub>:N<sub>2</sub>:E<sub>2</sub>=1:3:2. The temperature may be varied within 1700-2000°C. A table in the original article indicates the same processing relationships and specifications for titanium

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

YEMYASHEV, A. V., et al, Tsvetnyye Metally, no. 12, Dec 70, pp 30-32

pyronitride. The maximum deposition rate, however, was observed at 1600-1700°C. The decrease in the deposition rate with an increase in temperature is related to the fact that the titanium pyronitride deposition rate becomes commensurable with the vaporization rate. It was also found that the deposition rate of pyronitrides is directly proportional to the effective cross section of the vapor-gas mixture in the reaction zone. The high electroconductivity of titanium and airconium nitrides permits their use in special areas of electrical engineering and electronics. The superconductivity of zirconium nitride makes it a potential material for subzerotemperature technology. High melting temperatures and good refractory properties make these materials suitable for use as strengthening components. The method of deposition from the gas phase may be used for applying refractory coatings to parts of intricate configuration.

2/2

- 16 -

USSR

UDC 547.26'118

DORMIDONOV, I. A., MARTYNOV, V. F., and TIMOFEYEV, V. Ye., Institute of Applied Chemistry

"Bis(chloromethy1)phosphinic Acid Methyl Ester in the Darzens Reaction"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(103), No 2, Feb 72, pp 479-480

Abstract: Bis(chloromethyl)phosphinic acid methyl ester (I) reacts with ketones (II) under the influence of potassium tert.-butoxide to give bis(1,2-epoxyalkyl)phosphinic acid esters (III) which have not been previously described.

$$CH_{2}CI - P - CH_{2}CI + 2 \xrightarrow{R} C = 0 \xrightarrow{(CH_{3})_{1}COK} \xrightarrow{R} G - CH - P - CH - C \xrightarrow{R} OCH_{3} OCH_$$

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

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USSR

UDC: 622.243.94

BELYAYEV, V. P., VERCHEBA, A. O., MARTYNOV V. F., PROTSVETOV, Yu. G., SHCHENNIKOV, Ye. V., Moscow Geological Prospecting Institute imeni S. Ordzhonikidze

"Some Results of Mcdeling of the Process of Thermomechanical Destruction of Rocks, Using a Laser as the Heat Generator"

Moscow, IVUZ Geologiya i Razvedka, No 7, Jul 71, pp 125-126

Abstract: The authors discuss the feasibility of using lasers as the heat source for combination thermomechanical destruction of rocks. Research was done using a 30-watt continuous laser based on a mixture of CO<sub>2</sub>, N<sub>2</sub>, and He. The rock specimen was chucked up in a lathe with a special device for controlling tool pressure over a wide range. The laser beam was focused ahead of the tool into a spot with a diameter equal to the width of the tool. Spindle rotation was 18 rpm, and cutting was done for 3 minutes. The effectiveness of laser heating was determined by comparison with rock destruction by cutting alone. The results show that heating increases cutting effectiveness by a factor of 2.25-3.5. One table.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

1/2 009 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--AMINO ACIDS AND PEPTIDES. III. SYNTHESIS OF PEPTIDES WITH
PHENYLALANINE CONTAINING FLUORINE IN THE AROMATIC RING -UAUTHOR-(03)-KAUROV, 0.A., MARTYNOV, V.F., SHIRNOVAL M.P.

CCUNTRY OF INFO-USSR

SOURCE-ZH. OBSHCH. KHIM. 1970, 40(4), 903-4

DATE PUBLISHED 70

SUBJECT AREAS--CHEMISTRY

TGPIC TAGS-PEPTIDE, CHEMICAL SYNTHESIS, PHENYLALANINE, FLUORINATED AROMATIC COMPOUND

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1986

STEP NO-UR/0079/70/040/004/0903/0904

CIRC ACCESSION NO--APO127381

UNCLASSIFIED-

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

PROCESSING DATE-300CT70 UNCLASSIFIED 2/2 009 CIRC ACCESSION NO-APO127381 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. L-PHENYLALANINE AND N-CARBOBENZOXY-S BENZYL-L-CYSTEINE P-NITROPHENYL ESTER (I) IN GIOXANE (FOLLOWED BY ELECTROPHORESIS) GAVE 85PERCENT N-CARBOBENZOXY-S-BENZYL-L-CYSTEINYL L-PHENYLALANINE, M. 156-BDEGREES, (ALPHA) PRIMEZO SUBD 85DEGREES. AFTER ACIDIFICATION WITH HCL. SIMILARLY WAS PREPD. BOPERCENT N-CARBOBENZOXY-S-BENZYL-L CYSTEINYL-DL-P-FLUROPHENYLALANINE, M. 174.5-5.5DEGREES. DL-PENTA FLUOROPHENYLALANINE-HBR ADJUSTED TO PH 8 WITH NA SUB2 CO SUB3, THEN TREATED WITH I OVERNIGHT, EVAPD., AND KEPT 6 HR IN AW. DMF GAVE 72PERCENT N-CARBOBENZOXY-S-BENZYL-L-CYSTEINYL-DL-PENTAFLUDROPHENYLALANINE, M. FACILITY: LENINGRAD. GDS. UNIV., LENINGRAD, 167-8.5DEGREES. USSR.

UNCLASSIFIED

1/2 019 UNCLASSIFIED PROCESSING DATE--BOOCTTC
TITLE--AMING ACIDS AND PEPTIDES. IV. SYNTHESIS OF THE HEXAPEPTIDE AMIDE OF
THE 1-6 SEQUENCE OF DXYTDCIN -U-

AUTHOR-(03)-KAUROV. O.A., MARTYNOV, V.F., POPERNATSKIY, D.A.

COUNTRY OF INFO-USSR

SCURCE-ZH. OBSHCH. KHIM. 1970, 40(4), 904-8

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-HORMONE, PEPTIDE, AMIDE, CHEMICAL SYNTHESIS, MOLECULAR STRUCTURE, PITUITARY GLAND

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1963

STEP NO---UR/0079/70/040/004/0904/0908

CIRC ACCESSION NO--APO127362

UNCLASSIFIED

UNCLASSIFIED

PROCESSING DATE—300CT70

CIRC ACCESSICN NO—APO127362

ABSTRACT/EXTRACT—(U) GP—O— ABSTRACT. THE BY PRODUCT FORMED IN THE AZIDE

SYNTHESIS OF OXYTOCIN FROM CONDENSATION OF HEXA AND TRIPEPTIDES WAS

SHOWN TO BE THE AMIDE (I) OF THE HEXAPEPTIDE OF 1—6 ACID SEQUENCE OF

OXYTOCIN. SHOWN ON MICROFICHE. FACILITY: LENINGRAD. GOS.

UNIV., LENINGRAD. USSR.

1/2 010 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--AMINO ACIDS AND PEPTIDES. V. SYNTHESIS OF PEPTIDES OF AN OXYTOCIN
SEQUENCY USING HYDROXYPHTHALIC ESTERS OF BENLYLOXYCARBONYLAMINO ACIDS
AUTHOR-(03)-KAUROV, O.A., MARTYNOV, V.F., MOROZOV, V.B.

COUNTRY OF INFO--USSR

SDURCE--ZH. DBSHCH. KHIM. 1970, 40(4), 908-1

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--AMINO ACID, PEPTIDE, ORGANIC SYNTESIS, HYDROXYL RADICAL, PHTHALIC ACID, IMIDE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1509

STEP NO--UR/0079/70/040/004/0908/0911

CIRC ACCESSION NO--APO135170

UNCLASSIFIED

2/2 010 UNCLASSIFIED -PROCESSING DATE--27NOV70 CIRC ACCESSION NO--APOL35170 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. TREATING DECARBOSENZOXYTYROSINE AND N. HYDROXYPHTHALIMIDE IN OMF DIOXANE WITH DICYCLOHEXYLCARBODIIMIDE OVERNIGHT GAVE TOPERCENT DICARBOBENZOXY, L, TYROSINE HYDROXYPHTHALIMIDE ESTER, M. 68-9DEGREES; SIMILARLY HAS PREPD. GOPERCENT HYDROXYPHTHALIMIDE ESTER OF CARBOBENZOXY, L, ISOLEUCINE, M. 1220 EGREES, GOPERCENT HYDROXYPHTHALIMIDE ESTER OF CARBOBENZOXY, L. ASPARAGINE, M. 153-50EGREES, AND SOPERCENT HYDROXYPHTHALIMIDE ESTER OF CARBOBENZOXY, L. GLUTAMINE, 4. THESE ESTERS TREATED WITH APPROPRIATE AMINO COMPONENTS 132-4DEGREES. AND ET SUB3 N AT MINUS 10DEGREES IN DMF, CHCL SUB3, OR DIDXANE GAVE THE FOLLOWING L, AMINO ACIDE PEPTIDES (Z EQUALS CARBONENZOKY): Z.ASN.CYS(PHCH SUB2), GME M. 192-5DEGREES; Z.GLN.ASYN, CYS(PHCH SUB2), OME M, 238-9DEGREES; Z,LEU,GLY,GET, M. 104-6DEGREES; Z,PAD,LEU,GLY,GET, M. 148-510EGREES; Z,CYS(PHCH SUBZ),PRO,ELU,GLY,NY SUBZ, M. 170-10EGREES; Z,ASN,CYS(PHCH SUB2),PRO,ELU,GLY,NH SUB2, M. 213-14DEGREES; Z,GLN,ASN,CYS(PHCH SUB2),PRO,LEU,GLY,NH SUB2 M. 232-3DEGREES; Z, ILI, GLYN, ASN, CYSIPHCH SUB21, PRO-LEU, GLY, NH SUB2, 4. 233-50 EGREES; Z, CYSTPHCH SUB2), TYR, DME, M. 95-6DEGREES: AND Z, TWR(Z), ILF, OHE, M. 148-50DEGREES. FACILITY: LENINGRAD. GOS. UNIV. LENINGRAD. USSR. UNCLASSIFIED

1/2 025

UNCLASSIFIED

PROCESSING DATE--13NOV70

TITLE--FERROELECTRIC TRANSITION IN AMMONIUM SULFATE, DIELECTRIC, OPTICAL, AND ELECTROOPTICAL PROPERTIES NEAR THE CURIE POINT -U-

AUTHOR-102)-ANISTRATOV, A.T., MARTYNOV, V.G.

COUNTRY OF INFO--USSR

SOURCE--KRITALLOGRAFIYA 1970, 15(2), 308-12

DATE PUBLISHED ---- 70

SUBJECT AREAS--PHYSICS

TOPIC TAGS -- FERROELECTRIC EFFECT, PHASE TRANSITION, ELECTROOPTIC EFFECT, DIELECTRIC CONSTANT, CURIE POINT, CRYSTAL DEFORMATION, AMMONIUM SULFATE

CONTROL MARKING--NO RESTRICTIONS

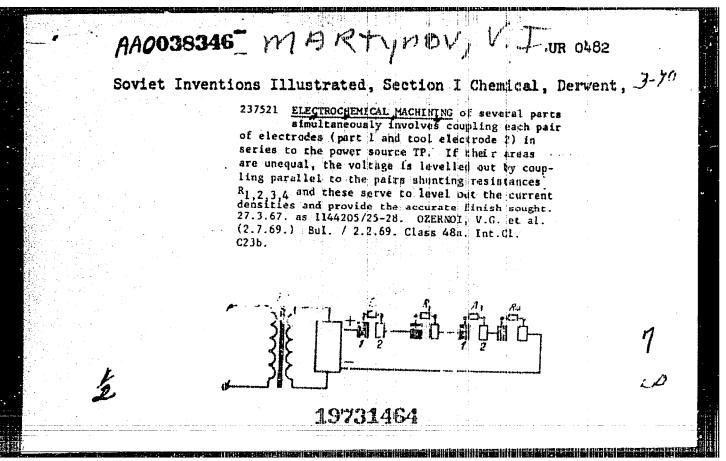
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1477

STEP NO---UR/0070/70/015/002/0308/0312

CIRC ACCESSION NO--APOL18466

UNCLASSIFIED

PROCESSING DATE--13NOV70 UNCLASSIFIED 025 2/2 CIRC ACCESSION NO--APOl18466 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE ELECTROOPTICAL PROPERTIES WERE STUDIED FOR (NH SUB4) SUB2 SO SUB4. THE DIELECT CONST. AND BIREFRINGENCE WERE DETO. SIMULTANEOUSLY FOR SAMPLES GUT FROM THE SAME CRYSTALS. THE BEHAVIOR OF THE DIELEC., OPTICAL, AND ELECTROOPTICAL PROPERTIES NEAR THE POINT OF THE PHASE TRANSITIONS ARE INTERPRETED ON THE BASIS OF THE MOUEL OF D. O'REILLY AND T. TSANG (1967). THE ANOMALIES IN THE BIREFRINGENCE AT THE CURIE POINT ARE ATTRIBUTED TO THE FACILITY: INST. FIZ., SPONTANEOUS DEFORMATION OF THE CRYSTAL. KRASNOVARSK, USSR. UNCLASSIFIED



AUTHORS: Ozernoy, V. G.; Danilov, M. A. and Martynov, V. T.

Polymers and Polymericallon

USSR

WIC 678.06:631.459

REVUT, I. B., ROMANOV, I. A., and MARTYNOV, V. P.

"Effectiveness of the Utilization of Latexes in Preventing Soil Erosion"

Moscow, Plasticheskiye Massy, No 11, 1973, pp 26-28

Abstract: The preventive action of several latexes on wind erosion of the soil has been studied. In particular the attention was directed towards the serial divinylstyrene latex SKS-50PG and SKS-65GP. Both formed durable film covers within a very short time, which were able to withstand hurricans force winds both on sandy soils as well as on clay surfaces. No particular changes were noted in water permeability temperature of the soil or in biological processes after treatment with the latex. The yield of the products increased principally on account of decreased losses due to wind effect and seeds being blown away with top zoil surface.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

UDC: 532

DUBOVIK, M. F., MARTYNOV, V. P.

"Investigation of the Electrical Properties of Barium-Strontium Niobate"

V sb. Monokristally i tekhnika (Single Crystals and Technology--collection of works), vyp. 5, Khar'kov, 1971, pp 190-192 (from RZh-Fizika, No 6, Jun 72, Abstract No 6Ye132)

<u>Translation</u>: The electrical properties of  $Ba_{x}Cr_{1-x}Nb_{2}O_{6}$  are studied in the solid and liquid state. Experimental curves are plotted for the electrical conductivity and thermoelectromotive force as functions of temperature.

1/1

- 62 -

#### ELECTRONICS

USSR

Microelectronics

UDC: 534.232.082.73-8

BRITSYN, K. I., DEMIDOV, V. P., MARTYNOV, V. P., KOCHALOV, B. F., SMIRNOV, A. A., and IVANOV, L. A.

"Studying Thin-Film CdS-Piezo-Converters"

Moscow, Radiotekhnika i Elektronika, Vol. 15, No 9, 1970, pp 1937-1944

Abstract: The authors present the results of the study of CdS-piezo-converter test specimens vaporized onto Al<sub>2</sub>O<sub>3</sub>. Basic converter characteristics are calculated and it is shown that the frequency characteristic depends as much on the relationships between the electrical impedances of a converter and the measuring tract as it does on the relationships between the mechanical impedances of madmium sulfide and the material of an acoustic line. A shift in the least loss point is predicted for CdS on Al<sub>2</sub>O<sub>3</sub> with respect to mechanical resonance frequency. This shift makes it possible to vary the band width and the position of the least loss point completely by electrical methods. A simple equivalent converter circuit proposed by the authors makes it readily possible to estimate its hammonization with the measuring tract and to determine the aspect of the frequency characteristic for various methods of excitation. The experimental converter specimens yielded a loss in the order of 30 db for a double conversion with a band of approximately 35 percent. The minimal loss point shifts toward the lower frequency region in comparison with the acoustic resonance point. The experimental and theoretical data are in good agreement. The loss values presented are not minimal and can be reduced more using

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USSR

BRITSYN, K. I. et al., Radiotekhnika i Elektronika, Vol. 15, No 9, 1970, pp. 1937-1944

supplementary matching equipment. The original article has six figures, 12 formulas, and nine bibliographic entries.

2/2

USSR

UDC 535.872

BEYNAROVICH, L. N., SALIMOVA, E. A., MARTYNOV, V. P.

"Manufacture of Large Mirrors of Polymers by the Copying Method"

Optiko-mekhanicheskaya Promyshlennost', No 10, 1971, pp 41-44.

BASTRACT: A method is described for manufacture of spherical mirros 700 mm in diameter of a polyester resin, using silumin as a base. The cost of these mirrors is significantly lower than similar glass mirrors. The copying method used is quite straight forward, involving production of a master reversed shape by casting of polyester on an optical glass mirror, after which the reversed shape master is used to produce polyester mirrors of the proper shape. A photograph is presented of the casting table used for production of the mirrors.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

UDO 534.232.082.75.001.5

DEMIDOV, V.P., MARTYHOV, V.P., MOCHALOV, B.F., SMIRNOV, A.A.

\*Electric Impedance Of A Film Piezo Converter\*

Radiotekhnika i elektronika, Vol XVII, No 5, Mar 1972, pp 648-652

Abstract: The impedance of experimental specimens of piezo converters based on OdS is studied by direct methods in the 200-800 MHz range, in order to determine the coefficient of electromechanical coupling, K, of the film. Measurements conducted in pulse and continuous regimes are described. The authors are grateful to N.I. Fokin and B.L. Bobikov for assistance in the work. 2 fig. 7 ref. Received by editors, 22 Oct 1970.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

UDC 621.382.002

LABUTIN, N.I., MARTYNOV, V.V., PAVILAYNEN, V.S., STOROZHUK, G.A.

"Transfer Of Defects Of Photopattern To A Silicon Oxide Film In The Process Of Contact Photolithography"

Elektron.tekhnika. Nauch.-tekhn.sh. Mikroelektronika (Electronic Technica. Scientific-Technical Collection. Microelectronica), 1971, Isauc 5(31), pp 41-44 (from RZh:Elektronika i yeye primeneniye, No 5, May 1972, Abstract No 58392)

Translation: The transfer in the process of photolithography of the defects of a photopattern [fotoshablon] to SiO2 was studied by the electron microscopic method for standard photolithographic regimes which are used in the projection of silicon integrated circuits with the aid of positive photoresists. The critical dimensions of the permissable defects on the photopattern are determined. Summary.

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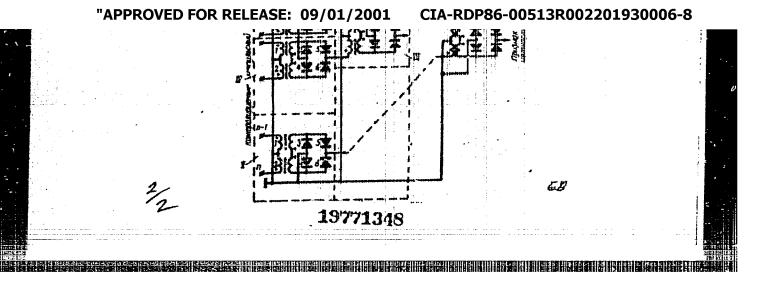
UR 0482

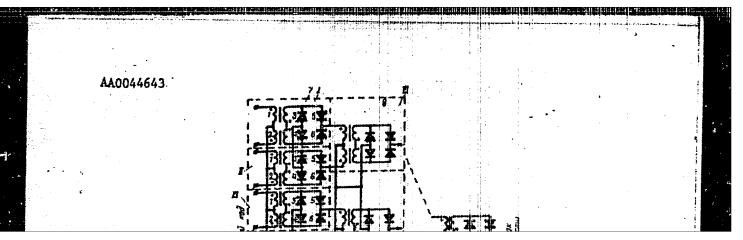
ioviet Inventions Illustrated, Section II Electrical, Derwent, 1/70

239664 ODD-EVEN CHECK for pulse codes requires two transformers (1,2) which are connected in opposition in such a way that output signals are produced only when the number of input pulses is odd. Two diodes (3,6) clear the passage of pulses of only positive polarity to collective diodes (5,6). The output pulses of the previous check stage (7) which appear only on the outputs of modules I - V where the number of input pulses is even, are passed to similarly operating modules VI - VII of the last check stage (8) etc. 13.2.68 as 1218368/18-24. V. V. MARTYNOV & L. M. CHAIRDYAN. (10.9.69) Bul 11/18.3.69. Class 42m<sup>2</sup>. Int. Cl. C 06 E.

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**APPROVED FOR RELEASE: 09/01/2001** CIA-RDP86-00513R002201930006-8"





1/2 031 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--THE PLASTICITY AND STRENGTH OF SOLID BODIES AT HIGH PRESSURES -U-

AUTHOR-(05)-BERESNEV, B.I., MARENMOV, YE.D., RODIONOV, K.P., BULYCHEV, D.K., RYABIBIN, YU.N.
COUNTRY OF INFO--USSR

SOURCE—THE PLASTICITY AND STRENGTH OF SOLID BODIES AT HIGH PRESSURES (PLASTICHNOST' I PROCHNOST' TVEROYKH TEL PRI VYSOKIKH DAVLENIYAKH) DATE PUBLISHED————70

SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--PLASTIC DEFORMATION, HIGH PRESSURE EFFECT, MECHANICAL STRENGTH, METAL MECHANICAL PROPERTY/(U)GT\$K METAL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/1703

STEP NO--UR/0000/70/000/000/0001/0159

CIRC ACCESSION NO--AMOL30571

UNCLASSIFIED

PROCESSING DATE--27NOV70 UNCLASSIFIED 2/2 031 CIRC ACCESSION NO--AMO130571 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. TABLE OF CONTENTS: PREFACE 5. INTRODUCTION 9. CHAPTER I. THE EQUIPMENT FOR THE REALIZATION OF PLASTIC DEFORMATION OF SOLID BODIES AT HIGH PRESSURES 11. PLASTICITY, STRENGTH AND DESTRUCTION OF SOLIO BODIES AT HIGH PRESSURE TIL. THE INLUENCE OF DEFORMATION UNDER HIGH PRESSURE ON THE PROPERTIES OF PLASTIC GTSK (?) METALS 99. UITERATURE 158. MONOGRAPH DEALS WITH QUESTIONS CONNECTED WITH THE DEVELOPMENT OF EQUIPMENT FOR THE CREATION OF PRESSURE IN LIQUID UP TO 25,000 KG-CM PRIMEZ AS WELL AS FOR THE REALIZATION UNDER THESE CONDITIONS OF PLASTIC DEFORMATION. DESCRIBED IS THE INFLUENCE OF PRELIMINARY DEFORMATION UNDER PRESSURE ON THE CHANGE IN MECHANICAL PROPERTIES HOR VARIOUS METALS. THE BOOK IS DESIGNED FOR SPECIALISTS IN THE PHYSICS OF SOLID BODIES AND METALLURGISTS. UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

1/2 027 UNC

UNCLASSIFIED

PROCESSING DATE-300CT70

TITLE--DEPENDENCE OF THE RUNOUT TIME OF AN ELECTROSTATIC GYROSCOPE ON THE

ROTOR UNBALANCE -U-

AUTHOR-(03)-MARTYNENKO, YU.G., NOVOZHILOV, I.V., DANILIH, V.P.

COUNTRY OF INFO-USSR

M

SOURCE--IZVESTIIA, MEKHANIKA TVERDOGO TELA, MAR. APR. 1970, P. 20-22

DATE PUBLISHED----70

SUBJECT AREAS-NAVIGATION

TOPIC TAGS-GYROSCOPE MOTION, ELECTROSTATICS, VIBRATION DAMPING, RUNOFF

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0268

STEP NG--UR/0484/70/000/000/0020/0022

CIRC ACCESSION NO-APO124029

UNCLASSIFIED

CIRC ACCESSION NG—APOL24029

ABSTRACT/EXTRACT—(U) GP-0— ABSTRACT. STUDY DF THE EFFECT OF ROTOR UNBALANCE ON THE RUNOUT TIME OF AN ELECTROSTATIC GYROSCOPE WITH A SPHERICAL SHAPED ROTOR. IT IS SHOWN THAT THE ROTOR UNBALANCE LEADS TO BEATING OF THE ROTOR KELATIVE TO THE GYROSCOPE CASING AND TO DISSIPATION OF THE ROTATIONAL MOTION ENERGY DF THE ROTOR BY DAMPING FURCES OF THE GYROSCOPE SUSPENSION. A FORMULA GIVING THE TRUE RUNOUT TIME OF THE GYRGSCOPE IS PRESENTED, AND AN EXAMPLE ILLUSTRATING THE CALCULATION OF THE RUNOUT TIME IS CITED.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

UNCLASSIFIED

1/2 014 UNCLASSIFIED PROCESSING DATE--ZONOV7C TITLE--SOLUBILITY OF SILVER CHLORIDE IN THE SYSTEM CHLORIDE, PERCHLORATE,

SUDIUM, AMMENIUM WATER -U-AUTHOR-(G2)-SIMULIN, YU.N., MARTYNOV, YU.M.

CCUNTRY OF INFC--USSR

SGURCE--ZF. PRIKL. KHIM. (LENINGRAD) 1970, 43(4), 889-91

DATE PUBLISHED -----7C

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--SILVER COMPOUND, CHEORIDE, SOLUBILITY, SOCIUM, WATER, AMMONIUM

CENTREL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/0437

STEP NO--UR/0080/70/043/004/0889/0891

CIRC ACCESSION NO--APOL26190

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UNCLASSIFIED PROCESSING DATE—20NOV7O

CIRC ACCESSION NO—APO126190

ABSTRACT/EXTRACT—(U) GP—0— ABSTRACT, THE SOLY, GF AGGL IN THE PRESENCE
OF THESE ICNS HAS STUDIED AT 25-70PERCENT AND THE ACTIVITY COEFFS. OF
OF THESE ICNS HAS STUDIED AT 25-70PERCENT AND THE ACTIVITY COEFFS. OF
AGGL CALCD. AN INCREASE IN THE SONCN. OF NH SUB4 CLO SUB4 FROM 0.1 TO
AGGL CALCD. AN INCREASE IN THE SOLY. OF AGGL BY A FACTOR OF SIMILAR TO 2.5.
1.04 MOLE—L. DECREASED THE SOLY. OF AGGL BY A FACTOR OF SIMILAR TO 2.5.
FOR ADUNL. INCREASE IN THE CONCN. OF NUSUB4 CLO SUB4 TO 1.79 MOLE—L.
FOR ADUNL. INCREASE IN THE CONCN. OF INCREASED SOMEWHAT. FOR THIS SYSTEM
THE SOLY. REMAINED ALBOST CONST. OR INCREASED CONCN. OF NH SUB4 CLO
THE HEAT OF SOLN. DELTAH INCREASED WITH INCREASED CONCN. OF NH SUB4 CLO
THE HEAT OF SOLN. DELTAH INCREASED WITH INCREASED CONCN. OF NH SUB4 CLO
SUB4 (OR NH SUB4 OH) AND CAN BEDESCRIBED BY AN EXPRESSION OF THE FORM
LOG DELTAH EQUALS ALPHA C PLUS B, WHERE C IS THE CONCN. OF NH SUB4 CLO
SUB4 CR AH SUB4 OH.

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8

- WBSM - 11	Inchnical-konomic Comparison of the Herhods of Solidification and Tank Storage for Highly Active Liquid Wastes From the Processing of Spent Fact Risands of Waster-Kodefaced Proce Reactors (the Co. Atamayeus, et al.)  Scientific Freeridaites for Enrying Highly Active Liquid Wastes in Deep Geological Formations (v. E. Spitsyn, et al.)  Development of Mathoda for Preparing the Wastes From Hexaffucile Technology for Durial (N. V. Krylovs, et al.)	by the State Committee in, 1972, Noscou	DISPOSAL OF RADIOACTIVE WASTES	JP 17 April 1
<b>.</b>	: : : : : : : : : : : : : : : : : : :	FAGE		8764

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002201930006-8

The infinity and of the specific activity up to 1904 the committee of the beauth active of the activity of the specific activity of the specific activity of the specific activity of water with a specific activity of water and more frequently.

It is infinity to the motion of the possibility of incressing the permissible specific activity of water ancioned in bitmen is bring raised more and more frequently.

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The infinity value of the specific activity is determined by two factors: The infinity value of the specific activity up to 1904 the specific activity of up to 1904 the specific activity of up to 1904 the specific activity of the bitmen DI.

It addition-themical stability of the bitmen backs as the period activity the specific activity of up to 1904 the specific activity of 1904 the procure of gas absorption, accompanied by a decrease in the pressure of gas absorption, accompanied by a decrease in the pressure in the metal. For a block with an activity of 0.15 curie

- 25 -

per literalized; after two years of storage the rate of gas liberation beof 55 and 52 curies per bilogram with respect of <u>516 and 52 curies</u> (40% nm-TII) s down Matto<sub>s</sub>). with a apertic activity of 1, 5 curies per kilogram is nuticiable considerably earlier than for blocks of a specific activity of 15, 4 curies per kilogram. noticeable gualiberation and an increase in pressure in a tank for blocks For pure bitumen HI-III and two specimens based on it, irradixed in a Co-50 installation with a power of the dose of 2.1 x 10<sup>2</sup> rad per hour, the composition of the gaseous phase formed as a result of radiolysis was determined (Table 1). Coplete confidention # # }, with a specific activity of 15. 4 curtes per kilogram. dicrease, and the tendency toward a retardation is proposed in a spectmen A comparison of these results with some obtained earlier (2) with a dose of absorbed energy of 7 x 10<sup>6</sup> rad and a power of the dose of 2, 9 x 10<sup>8</sup> rad per hour demonstrated that the increase in the power of the dose and the dose of absorbed energy leads to an increase in the content of hydrogen and days the pressure somewhat exceeded the pressure in the tank. mens was observed (Figure 2), after which gas liberation began. of bitteen fileff! (40%netti + 40% fiatto)). The volume of the specimen At the present time, specimens have been prepared with a specific activity clogram gas liberation is still observed, but, however, its rate begins to Simultaneously in all cases a decrease in the exygen content in the gaseous phase, in comparison with the air ratio, was noted. no casential effect on the composition of the gaseous phase. buse usignificant and the pressure in the vessel does not increase, atmosphere of air. was preserved practically constant. various powers of the doss, and in this case the total dose of absorbed energy and in biliman amounted to 3.5 -- 4 centimeters, were irradiated on a Co-69 installation with appearance of methans, hydrocarbons of group C2, and carbon diaxids in Specimens in the form of cylinders, the diameter and height of which The presence of sodium nitrate in the specimen in the given case has For determination of the nature of radiation changes in the bittues. For appreciment with a appreciate activity of 1, 54 and 15, 4 curies per preparations special investigations were conducted. During the first forty days gas absorption in the speci-The irradiation was conducted in an to atrontium-90 on the basis The beginning of After 150

UNCLASSIFIED PROCESSING DATE--300CTTO

142 025 TITLE-CLINICO MORPHOLOGICAL CHARACTERISTICS OF CEREBRAL VASCULAR

DISTURBANCES IN HEPATIC INSUFFICIENCY -U-AUTHOR-(02)-MARTYNOV, YU.S., MALKOVA, YE.V.

CCUNTRY OF INFO-USSR

SOURCE-KLINICHESKAYA MEDITSINA, 1970, VOL 48, NR 5, PP 61-67

DATE PUBLISHED 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-LIVER DISEASE, CEREBRUM, EDEMA, SYNDROME, HEADACHE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1038

STEP NO--UR/0497/70/048/005/0061/0067

CIRC ACCESSION NO--APO126676

UNCLASSIFIED

PROCESSING DATE-- BOUCTTO UNCLASSIFIED 025 2/2 CIRC ACCESSION NO-APO126676 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN YOUNG AND MIDDLE AGE PATIENTS SUFFERING FROM HEPATIC INSUFFICIENCY IN DETERIORATION OF THEIR CONDITION TONE OFTEN OBSERVES DIFFERENT VASOMOTOR DISTURBANCES. STROKE AND CRISIS COMMONLY DEVELOP IN A REDUCED OR NORMAL ARTERIAL PRESSURE. THE GENERAL PICTURE OF PATHOHISTOLOGICAL CHANGES MAY BE FORMULATED AS FOLLOWS: HEPATIC METABOLIC TOXIC DYCIRCULATURY ENCEPHALOPATHIA WITH DISORDER OF THE VASCULAR PERMEABILITY, DISTURBANCE OF GEREBROSPINAL FLUID CIRCULATION AND CEREBRAL EDEMA. AS THE RESULT OF THESE DISTURBANCES THERE OCCUR CIFFERENT CLINICAL VARIANTS OF VASCULAR DISORDERS, MIGRAINE, CRISIS, PARENCHYMATOUS HEMORRHAGES, ETC. IN THE DEVELOPMENT OF DISTURBANCES OF CEREBRAL CIRCULATION OF IMPORTANCE IS ALSO THE INITIAL BACKGROUND, VEGETATIVE DYSTONIA, INITIAL MANIFESTATIONS OF ATHEROSCLEROSIS. ETC. EARLY AND TIMELY PATHOGENETIC THERAPY OF HEPATIC INSUFFICIENTY IS THE PRINCIPAL MEANS OF PROPHYLAXIS OF CEREBRAL VASCULAR DISORDERS AND IS CONDUCIVE TO THEIR MILDER COURSE. KAFEDRA NERVNYKH BOLENZNEY UNIVERSITETA DRUZHBY NARGODY IM. P. LUMUMBY.

UNCLASSIFIED

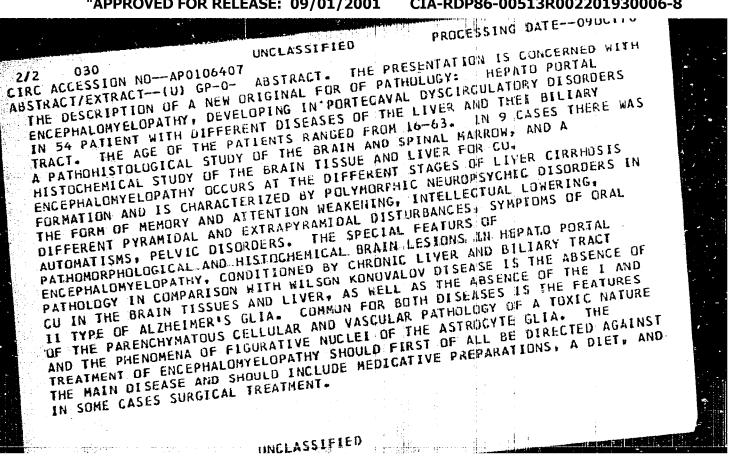
PROCESSING DATE--160CT70 TITLE--THE MENINGEAL SYNDROME IN DISORDERS OF CEREBRAL CIRCULATION -U-UNCLASSIFIED AUTHOR-(03)-MARTYNOV, YU.S., YESIPOVA, I.K., KHOKLOV, YU.K. COUNTRY OF INFO--USSR SOURCE-ZHURNAL NEVROPATOLOGII I PSIKHIATRII IMENI S. S. KORSAKOVA, 1970, VOL 70, NR 5, PP 702-708 DATE PUBLISHED----70 SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--CEREBRUM, PAIN. BLOOD CIRCULATION, HEMORRHAGE, THROMBOSIS CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0246/70/070/005/0702/0708 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0227 CIRC ACCESSION NO--APOL17481

UNCLASSIFIED ...

PROCESSING DATE--160CT70 UNCLASSIFIED ABSTRACT. THE AUTHORS STUDIED CLINICALLY THE 026 CIRC ACCESSION NO--APO117481 2/2 FEATURES OF 22 MENINGEAL SYMPTOMS (PAIN AND TONIC) IN 513 GASES WITH ABSTRACT/EXTRACT--(U) GP-0-DISORDERS OF CEREBRAL CIRCTHE AGE GROUP FROM 16-89 YEARS. AMONG THESE CASES 317 HAD ISCHEMIC SOFTENINGS, 189, HEMORRHAGES AND 7, STROKES OF A COMBINED CHARACTER. THE CHARACTER OF THE PROCESS IN 96 CASES WAS CONFIRMED ANATOMICALLY IN THE REMAINING CASES BY A CLINICAL DEVELOPMENT AND LUMBAR PUNCTURE. THE MENINGEAL SYNOROME IN HERDRIHAGIC STROKES WAS SEEN APPROXIMATELY IN TOPERCENT OF THE FATIENTS, IN THROMBDEMBOLIZATION, IN SOPERCENT, IN NONTHROMBUTIC SOFTENINGS, 30PERCENT, IN THROMBOSIS, IN 15PERCENT. IN ALL FORMS OF STROKES THE MUST FREQUENT SIGNS WERE KERNIGS SYMPTOM, OCCIPITAL RIGIDITY, THE LOWER SYMPTON OF BRUDZINSKI, THE MANDIBULAR SYSMPTOM OF BEKHTEREY, PAINFUL POINTS OF KEHRER, MENDELS THE ORDER OF APPEARANCE OF MENINGEAL SYMPTOMS IS THE SAME FOR THROMBUEMBOLIZATION, NONTHROMBOTIC SOFTENINGS AND THROMBOSIS, AS WELL AS FOR HEMORRHAGES. THE FIRST TO APPEAR WAS THE OCCIPITAL MUSCLE RIGIDURY, THE MANDIBULAR BEKHTEREV SYMPTOM, KERNIGS SYMPTOM AND THE LOWER BRUDZINSKI'S SYMPTOM. IN HEMORRHAGES, ESPECIALLY SUBARACHNOIDAL AND SUBARACHNOIDAL, PARENCHYMATOUS, THE MENINGEAL SYMPTOMS APPEAR EARLIER AND ARE MURE EXPRESSED. KAFEDRY NERVNYKH BOLEZNEY I PATOLOGICHESKOY MORFOLOGII UNIVERSITETA DRUZHBY NARODOV IM. PATRISA LUMUMBY. MUSCOW. INCLASSIFIED

PROCESSING DATE--UNICITY UNCLASSIFIED TITLE-HEPATO PORTAL ENCEPHALONYELOPATHY -U-AUTHOR-104)-BGOLEPOV, N.K., MARTYNOV, YU.S., MALKOVA, YE.V., YSIVILKO, 1/2 030 SOURCE-ZHURNAL NEVROPATOLOGII I PSIKHIATRII IMENI S. S. KORSAKOVA, 1970, COUNTRY OF INFO--USSR VOL 70, NR 4, PP 496-506 DATE PUBLISHED ----- 70 SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--LIVER, BILE, BRAIN, SPINAL CORD, BONE MARRON, CIRRHOSIS, DIET, MEMORY CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0246/70/070/004/0496/0506 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1661 CIRC ACCESSION NO--APO106407

UNCLASSIFIED



UDC 621.373.52-181.48

USSR

ZHITNIKOV, YE. I., SIMONOV, L. A., and MARTYNOVA, G. G.

"Generators Based on RC-Structures With Distributed and Lumped Parameters Made From Integrated Hybrid Cimcuits"

Sb. nauch. tr. po probl. mikroelektron. Mosk. in-t elektron. tekhn. (Gollected Scientific Works on Problems in Microelectronics. Moscow Institute of Electronics Technology), 1972, vyp.10, pp 194-200 (from RZh-Radiotekhnika, No 11, Nov 72, Abstract No 11 D266)

Translation: The authors describe the principal circuits and present the results of the experimental studies of RC-generators based on integrated hybrid microcircuits. The studies were carried out within a broad range of frequencies from 3 cps to 10 Mc. Data are also given on the stability of the frequency and amplitude of RC-generators and on the control of the frequency of RC-generators with the aid of varicaps of p-n-junctions. Resume.

1/1

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UDC:548.4

RAYCHENKO, A. I., and MARTYROVA, I. E., Institute of Problems of Material Science, Academy of Sciences Ukrasa

The Function of Scattering X-Rays by Metals with a Hexagonal Lattice Containing Dislocations"

Kiev, Fetallofizika, No 31, 1970, pp 126-132

Translation: Intensity distributions on Debye's powder disgram corresponding to the scattering of roentgen radiation from metals containing dislocations with Burgers's vectors 1/3 /2110/ (screw and mixed dislocations) and 1/6 [2023] (edge dislocations) were calculated. The course of radiation intensity scattered by metals with chaotically distributed dislocations is expressed by the Gaussian distribution depending on Ax Brass angle). The distribution dispersions pertaining to the dislocations mentioned differ in factors ("orientational factors") depending on Filler's indices, elastic constants, and the relationship of crystal lattice parameters. Bibliography: 14 entries, 1 illustrations, 2 tables.

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CIA-RDP86-00513R002201930006-8" **APPROVED FOR RELEASE: 09/01/2001** 

USSR

UDC 533+536.423.1

VYSHENSKAYA, V. F., KOSOV, N. D., KURLAPOV, L. I., MARTYNOVA, G. P.

"Study of the Dependence of the Coefficient of Mutual Diffusion of a Helium-Carbon Dioxide System on Concentration"

V sb. Fizika (Physics -- Collection of Works), No. 5, Alma-Ata, 1971, pp 78-80 (from RZh-Fizika, No 1, Jan 73, Abstract No 1Ye45)

Translation: The coefficient of mutual diffusion in the entire concentration interval was measured by a stationary method for a concentration difference of v0.1. A considerable decrease was noted in the coefficient of mutual diffusion with a decrease in  $\rm CO_2$  concentration from 0.1 to 0. The coefficient of mutual diffusion of this system can be considered constant in the  $\rm CO_2$  concentration interval 1-0.1. Authors' abstract.

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UDC 533+536.423.1

USSR

KURLAPOV, L. I., MARTYNOVA, G. P.

"Viscosity Coefficients of Multicomponent Gas Mixtures"

V sb. Fizika (Physics -- Collection of Works), No 5, Alma-Ata, 1971, pp 123-127 (from RZh-Fizika, No 1, Jan 73, Abstract No 1Ye53)

Translation: The classical concept of free path length (the Maxwell-Boltzmann theory) is applied to describe the viscosity of multicomponent gas mixtures, and the calculations are carried out for three- and two-component mixtures. The calculations are within the limits of the error with experimental data available in the literature. Authors' abstract.

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UDC: 537.312.62

SAVITSKIY, Ye. M., BARON, V. V., MYZERKOVA, L. F., MARTYNOVA, L. F.

"A Study of Magnetization of Niobium and Zirconium Single Crystals"

Moscow, Sverkhprovodyashchiye splavy i soyedin. -- sbornik (Superconductive Alloys and Compounds -- collection of works), "Nauka," 1972, pp 122-125 (from RZh-Radiotekhnika, No 12, Dec 72, abstract No 12D559 [résumé])

Translation: Curves are plotted for the magnetization of single crystal specimens of niobium with 5% sirconium having various crystallographic axial orientations (at 4.2 K). The results show anisotropy of the critical magnetic fields, the residual magnetic moment and the maximum "diamagnetic" moment. Three illustrations, bibliography of 13 titles.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

UDC 669.293.5.296.548.55.620.186.537.312.62

SAVITSKIYY, Ye. M., MYZENKOVA, L. F., BARON, V. V., MARTYNOVA, L. F.

"Study of the Structure and Superconducting Properties of Niobium Single Crystals with 5 and 10% Zirconium"

Probl. Sverkhprovodyashch. Materialov [Problems of Superconducting Materials -- Collection of Works], Moscow, Nauka Press, 1970, pp. 148-155. (Translated from Referativnyy Zhurnal Metallurgiya, No. 5, 1971, Abstract No. 5 1784 by the authors).

Translation: The structure of single crystals of the alloys of Nb with 5 and 10% Zr produced by the method of cathode-ray zone melting is studied. Data are presented on the distribution of Zr and interstitial impurities through the length of a bar of the single crystal. The transition temperature T<sub>C</sub>- is measured. For the alloy Nb-5% Zr, T<sub>C</sub>=10°K, for the alloy Nb-10% Zr, 10.5°K. Magnetization curves of specimens with various crystallographic orientation are measured. 5 figs; 1 table, 6 biblio refs.

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USSR

UDC: 537.312.62

SAVITSKIY, Ye. M., MYZENKOVA, L. F., BARON, V. V., MARTYNOVA, L. F.

"Investigation of the Structure and Superconducting Properties of Single Crystals of Niobium With 5 and 10 Percent Zirconium"

V sb. Probl. sverkhprovodyashch. materialov (Problems of Superconducting Materials-collection of works), Moscow, "Nauka", 1970, pp 173-177 (from RZh-Radiotekhnika, No 5, May 71, Abstract No 5D552)

Translation: The authors study the structure of single crystals of alloys of niobium with five and ten percent by weight of zirconium made by the method of electron-beam zone melting. Data are given on the distribution of zirconium and introduced impurities with respect to the length of the single-crystal bar. The temperature of transition to the superconducting state is measured. For a niobium alloy with 5 percent zircnoium, the transition temperature is 10°K, while the corresponding temperature is 10.5°K for an alloy of niobium with 10 percent zircnoium. Magnetization curves are plotted for specimens with various crystallographic orientations. Five illustrations, one table, bibliography of six titles. Resum£.

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USSR

UDC 669.018.045+537.312.62

SAVITSKIY, Ye. M., MYZENKOVA, L. F., BARON, V. V., and MARRYNOVA, L. F.

"Study of Structure and Superconducting Properties of Single Crystals of Niobium With 5 and 10% Zirconium"

Problemy Sverkhprovodyashchikh Materialov [Problems of Superconducting Materials--Collection of Works], Moscow, Nauka Press, 1970, pages 148-155

Translation: The structure of single crystals of the alloys of niobium with 5 and 10 wt.% Zr produced by the method of cathode ray zone melting is studied. Data are presented on the distribution of zirconium and interstitial impurities over the length of a monocrystalline bar. The transition temperature is measured. For the alloy niobium-5% Zr,  $T_c = 10^\circ K$ ; for the alloy niobium-10% Zr,  $T_c = 10.5^\circ K$ . Magnetization curves of specimens with various crystallographic orientation are measures.

5 figures; 1 table; 6 biblio. refs.

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1/2 019 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--STRUCTURE OF THE CARBOHYDRATE CHAINS OF THE BLOOD GROUP SUBSTANCE
(A PLUS H) -U-

AUTHOR-(05)-KOCHETKOV, N.K., DEREVITSKAYA, V.A., LIKHOSHERSTUV, L.M.,

MARTYNOVA, M.D., SENCHENKOVA, S.N.

COUNTRY OF INFO--USSR

SOURCE-CARBOHYD. RES. 1970, 12(3), 437-47

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--CARBOHYDRATE, BLUOD TYPE, PEPTIDE, ENZYME, CLOSTRIDIUM

CONTROL MARKING--NO RESTRICTIONS

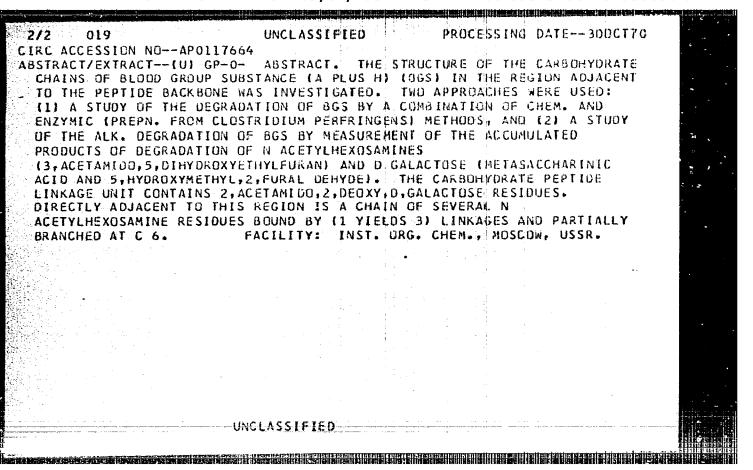
PROXY REEL/FRAME--1996/0428

STEP NO--NE/0000/70/012/003/0437/0447

CIRC ACCESSION NO--APO117664

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"



Thermomechanical Treatment

USSR

UDC: 669.295'71'28:621.789-974

KHOREV, A. I., CHINENOV, A. M. (Deceased), and MARTYNOVA, H. M.

"Thermomechanical Treatment of Alloys of the Titanium-Aluminum-Molybdenum System"

Moscow, Metallovedeniye i termicheskaya obrabotka metallov, Sept 71, no 9, pp 43-46

Abstract: This study concerns the effect of thermomechanical treatment (TMT) on the hardening of titanium alloys. TAT combines quenching, forming, and aging. The Ti-Al-Mo test alloys had a constant aluminum content (3%) with Mo content varying from 0.5 to 30%. Alloy strips were quenched from a temperature 50°C below that of aAB transformation (holding time 15 mins) and cold rolled for 20 and 40% deformations. Aging was performed at 450 and 500°C for 5 and 25 hrs. It was found that hardening due to cold deformation is a function of phase composition; it is maximal in an alloy of Ti with 3% Al and 15% Mo possessing high forgeability at cold deformation. Cold deformation minimizes primarily uniform elongation while affecting to a lesser degree localized elongation. Compared to conventional strengthen-

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USSR

KHOREV, A. I., et al, Metallovedeniye i termicheskaya obrabotka metallov, Sept 71, no 9, pp 43-46

ing-type thermal treatments, TMT provides higher strength while frequently increasing plasticity as well. Deformation of the Ti+3% Al+15 Mo alloy by 20% prior to aging at 500°C for 25 hrs increases its strength from 155 to 172 kgf/mm² while decreasing its per-unit elongation from 4 to 3%.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

UDC 621.382.002

USSR

REVELEVA, M. A., MARTYNOVA, N. A., NIFONTOV, N. G.

"Effect of Some Nonorganic Protective Coatings on the Surface Properties of Silicon"

V sb. <u>Vopr. mikroelektroniki</u> (Problems of Microelectronics -- Collection of Works), Kiev, "Nauk. dumka," 1971, pp 103-110 (from RZh-+Elektronika i yeve <u>primenenive</u>, No 10, October 1971, Abstract No 10B490)

Translation: Films of SiO<sub>2</sub>, which are not inferior in their characteristics to the thermally grown, are produced by the reactive sputtering method. The effect of reactive sputtering of films on the surface properties of Si is studied. At the SiO<sub>2</sub>—Si boundary an accumulation of holes is discovered in the space-charge layer of both n- and p-Si. It is assumed that in contrast to thermal SiO<sub>2</sub>, the reactive SiO<sub>2</sub> contains a negative charge. The density of this charge is equal to (2-5) . 10<sup>11</sup> cm<sup>-2</sup>. Drift of the charge is not discovered. The small changes of the characteristics with prebreakdown fields are explained by polarization of the dielectric. A test of the passivating properties of the films obtained showed their reliability for protection and creation of non-housed semiconductors. 3 ill. 5 ref. I.M.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

#### MARTYNOVA, N. F.

"Application of the Statistical Test Method to Study of the Motion of an Artificial Satellite"

Byul. In-ta teor. astron. AN SSSR (Bulletin of the Institute of Theoretical Astronomy, Academy of Sciences USSR), 1970, 12, No 2, pp 293-301 (English summary) (from RZh-Mekhanika, No 1, Jan 71, Abstract No 1A51 by V. G. Demin)

Translation: The article studies the motion of an artificial earth satellite around the center of mass under the influence of the moments of forces of the central gravitational field, moments from the magnetic passive stabilizer and disturbing moments of aerodynamic forces, moments caused by eddy currents in the satellite shell, etc. From moments of disturbing forces are separated out random components caused by the random character of variation in atmospheric density, intensity of the earth's magnetic field, etc. In addition, random initial conditions are considered as random factors. Numerical investigation of satellite motion around the center of mass was conducted on a computer by the statistical test method (Monte Carlo method), with numerical integration of differential equations of motion being performed by the Runge-Kutta method. The initial conditions selected were close to the initial

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

MARTYNOVA, N. F., Byul. In-ta teor. astron. AN SSSR (Bulletin of the Institute of Theoretical Astronomy, Academy of Sciences USSR), 1970, 12, No 3, pp 293-301 (English summary) (from RZh-Mekhanika, No 1, Jan 71, Abstract No 1A51 by V. G. Dëmin)

conditions corresponding to steady rotation conditions, and the random character of initial conditions was assured by a program of random numbers. Numerical integration was performed for a satellite with or without a magnetic damper. It was established that the distribution laws of angular velocities and orientation angles are not Gaussian in both cases (oriented and unoriented satellite motion). It was found that before and after the magnetic of satellite motion around the center of mass by the earth's gravitational field an unstationary random process takes place. A correlation was found between angular velocities and orientation angles.

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**USSR** 

UDC: 532.721.69

MAL'TSEV, G.V., MARTYNOVA, N.K., and NOVOKRESHCHENOV, P.D.

"Influence of Mercury on Strength of Copper Subject to Ultrasonic Vibrations"

Kiev, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 7, No 5, 1971, pp 29-32

Abstract: Tensile tests of amalgamated copper specimens subject to ultrasonic vibrations were conducted.

The specimens were of 1 mm diameter. The coating of mercury was 0.001 mm thick. One end of the specimen was connected to a vibrator operating at 22 and 17.5 kilohertz frequency. The other end was subject to a static load. The grain size was varied by varying the annealing temperature.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

MAL'TSEV, G. V., et al. Fiziko-Khimicheskaya Mekhanika Materialov, Vol 7, No 5, 1971, pp 29-32

On Fig. 1 the tensile strength is plotted versus the square of the vibratory stress. The tensile strength of copper specimens without mercury is affected little by the vibratory stress. The tensile stress of amalgamated specimens is lower than of the specimens without mercury, it remains constant for small values of vibratory stress, then decreases linearly with the square of the vibratory stress. Curves for six different grain sizes are given, the strength decreases with the size of grain.

The explanation of these results is that the vibratory stress destroys the intermetallic bond between copper and mercury and makes it possible for the liquid mercury to penetrate into the cracks between the grains of copper.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

temperature.

AA0047011 UR 0482 Soviet Inventions Illustrated, Section I Chemical, Derwent, 2/70 VACUUM SURFACING DEVICE FOR OUTER SUR-238306 FACE OF HOLLOW CYLINDRICAL PARTS consists of vacuum chamber 1 with endface caps 2, within which are evaporator 3, heater 4, contact refrigerator 5 and vacuum system 6. Heater 4 and refrigerator 5 are on fixed horizontal holder shaft 8, attached to the endface cap and passing through the cavity of the part 7 being processed. The part is fixed onto holder shaft 8. In processing the revolving part is enclosed in the vacuum chamber, moving on extending rails. Dusting is done by the evaporation of a substance such as amorphous selenium, with which evaporator 3 is filled. Comtact thermo-couples fixed to holder shaft 8 are inside part 7. The thermo-couples are slid by a handle

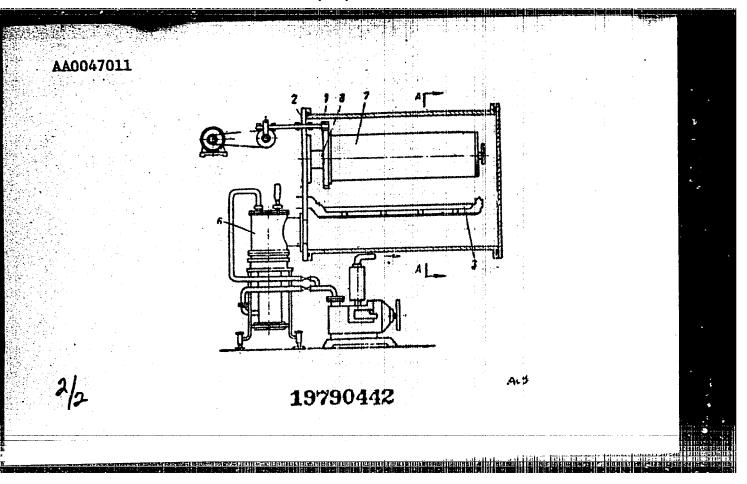
9.4.64 as 892940/22-1 MARTYNOVA N.N. (3.7.69) Bul. 9/20.2.69. Class 48b, Thr. 01: C 23c.

along the inner surface of part 7 to measure its

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"



UNCLASSIFIED PROCESSING DATE--230CT70

TITLE--DETERMINATION OF ISOBUTYLENE AND ETHYL ALCOHOL IMPURITIES IN ETHYL

CHLORIDE BY A GAS LIQUID CHROMATOGRAPHIC METHOD -U
AUTHOR-(04)-KUDRYAVTSEVA, N.A., LULOVA, N.I., MARTYNOVA, N.V., CHESNOKOVA,

COUNTRY OF INFO--USSR

SOURCE--KHIM. TEKHNOL. TOPL. MASEL 1970, 15(3), 58-60

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ISOBUTYLENE, ETHANOL, CHROMATOGRAPHIC ANALYSIS, CHEMCIAL LABORATORY APPARATUS, CHEMICAL PURITY, CHLORINATED ALIPHATIC COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0542

STEP NO--UR/0065/70/015/003/0058/0060

CIRC ACCESSION NO--APOL19461

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

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PROCESSING DATE—230CT70

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PROCESSING DATE—230CT70

CIRC ACCESSION NO—APO119461
ABSTRACT/EXTRACT—(U) GP—0— ABSTRACT. IMPURITIES GREATER THAN
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UDC 621.039.534.44:620.193.23

USSR

MARTYNOVA, O. I., NAZAROV, A. I., CHECHETKIN, Yu. V., KOBZAR, I. G., SAMOYLOV, IU. F., and PETROVA, T. I.

"Transition of Zinc Corrosion Products From Boiling Water Into Steam and Distribution of the Active Component on the Circuit of the VK-50 Boiling Water Reactor"

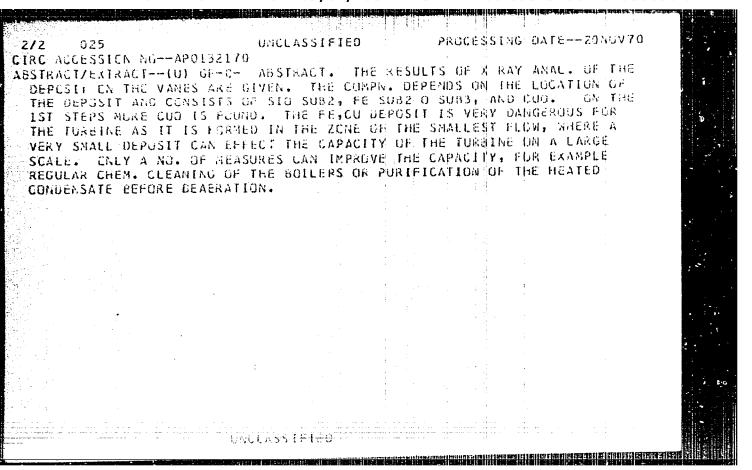
Moscow, Atomnaya Energiya, Vol 29, No 2, Aug 70, pp 82-86

Abstract: Values are presented for the distribution coefficient  $(K_d)$  of Zn corrosion products at 180 atm (355°C) and 100 atm (310°C) and are compared with experimental data of the visible Zn distribution coefficient in the VK-50 boiling water reactor according to measurements with the Zn65 isotope. Insofar as  $K_d$  ( $K_d$  =11.6 at 70 atm) and the half-life of  $Zn^{65}$  ( $T_1/p=245$  days) are very high, the  $Zn^{65}$  activity is assumed to represent the principal part of the activity of corrosion products in the steam-condensate cycle of the VK-50 reactor. This is shown from data on the activity of neveral blocks of the steam-condensate cycle. Steam washing and replacing brass parts in the turbine condenser and preheaters with parts made from other alloys are considered effective means for reducing Zn activity.

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CIRC ACCESSION NG--APC132170

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1/2 023 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--SELECTIVE REMOVAL OF DISPERSED PARTICLES INTO A STEAM AREA -U-

AUTHOR-(03)-MARTYNOVA, O.I., NAZAROV, A.I., CHECHETKIN, YU.V.

COUNTRY OF INFO--USSR

SOURCE--TEPLOENERGETIKA 1970, 17(3), 51-4

DATE PUBLISHED ---- 70

SUBJECT AREAS--PHYSICS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--PARTICLE DISTRIBUTION, IMPURITY LEVEL, SURFACE ACTIVE AGENT, STEAM BOILER, MASS TRANSFER/(U)VK50 REACTOR LOOP

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/0386

STEP ND--UR/0096/70/017/003/0051/0054

CIRC ACCESSION NO--APOILIS79

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

PROCESSING DATE--230CT70 . UNCLASSIFIED 023 2/2 CIRC ACCESSION NO--APO111579 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE CONTAMINATION OF STEAM WITH SOLID PARTICLES, CARRIED ON BUBBLES, WAS STUDIED BY THE USE OF RADIOSOTOPES ON A VK-50 BOILING WATER REACTOR LOOP OPERATING AT STEAM PRESSURES OF 70 KG, CM PRIME2. VARIOUS ACTIVITY DISTRIBUTION DETNS. SHOWED THAT THE CONTAMINATION WAS NOT PROPORTIONAL TO THE STEAM MOISTURE. THE PRESSURE OF SURFACE ACTIVE AGENTS IN THE BOILING LIQ. (HEAT TRANSFER AGENT), AND THEIR EFFECT ON THE SELECTIVE TRANSFER OF FACILITY: MOSK. DISPERSED PARTICLES INTO THE STEAM WAS OBSD. ENERG. INST., MOSCOW, USSR. UNCLASSIFIED 

#### Oncology

USSR

UDC 615.272.6:547.963.32].015:616-006-092.9

MATIYENKO, N. A., RONICHEVSKAYA, G. M., BELYAYEV, D. K., MARTYNOVA, R. P., and SALGANIK, R. I., Institute of Cytology and Genetics, Siberian Department, Academy of Sciences USSR, Novosibirsk

"Inhibitory Effect of Homologous Ribonucleic Acid on the Growth of Spontaneous Tumors in Mice of the High-Cancer A and  $C_3^{\rm H}$  Lines"

Hoscow, Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, No 1, 1971, pp 45-47

Abstract: Deproteinized RNA from mice of the low-cancer  $C_{57}Bl$  line was injected subcutaneously into A and  $C_3H$  mice with palpable mammary tumors. The antitumor effect of the preparation was assessed from the differences in the weight of tumors in control and experimental mice (the tumors were systematically weighed in animals sacrificed 10, 20, 30, 40, 80, and 100 days after the injection) and in the survival time of animals. Whereas the weight of tumors in control mice increased rapidly for the first 1 to 1-1/2 months and remained stable thereafter, it was significantly lower (50 to 77%) in the experimental group at 1/2

#### **USSR**

MATIYENKO, N. A., et al., Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, No 1, 1971, pp 45-47

all stages, especially during the first 2 months. The survival time of experimental animals was also markedly longer than that of controls. Injection of the RNA had no toxic effects, judging by the fact that the body weight of experimental and control animals was virtually the same at the end of the experiment.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

UDC [537.226+537.311.33]:[537+535]

PETROV, V. M., and MARTYNOVA S. V.

"Dielectric Dispersion in BaTiO3 Single Crystals as a Function of Their Domain Structure"

V sb. Segnetoelektriki i okisnyye poluprovodniki (Ferroelectrics and Oxide Semiconductors -- Collection of Works), Dnepropetrovsk, 1971, pp 91-99 (from RZh Fizika, No 12, Dec 71, Abstract No 12Ye1177)

Translation: The dielectric permeability  $\epsilon$  and tan  $\delta$  were measured as a function of frequency in the range 1 kHz - 5000 MHz and of the uniaxial pressure at frequencies of 1 kHz and 30, 300, and 200 MHz for c-domain single crystals of BaTiO3. It was established that  $\epsilon$  drops with an increase of frequency over the entire range indicated and not only in the region of piezoelectric resonance. Losses increase and in the ultrahigh-frequency region tan  $\delta$  of c-domain crystals reaches 0.3-1. It is concluded that relaxation of 180° domain walls with a wide relaxation time interval exists in addition to piezoresonance. With the application of pressure along the c-axis  $\epsilon$  and tan  $\delta$  increases at all frequencies so that at 300 MHz tan  $\delta$  passes through a maximum at a pressure of about 100 kG/cm². The average relaxation frequency increases with an increase of pressure, which fact is explained by reduction of the grain structure. V. M. Petrov.

UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--COMPARISON OF PHOSPHORITES OF VARIOUS ORIGINS DURING THE
FERTILIZATION OF PLANTS DIFFERING IN THE ABILITY TO USE HARD TO
AUTHOR-(02)-SIROTIN, YU.P., MARTYNOVA, T.A.

COUNTRY OF INFO--USSR

SOURCE--DOKL. VSES. AKAD. SEL'SKOKHOZ. NAUK 1970, (2), 17-19

DATE PUBLISHED-----70

SUBJECT AREAS -- AGRICULTURE

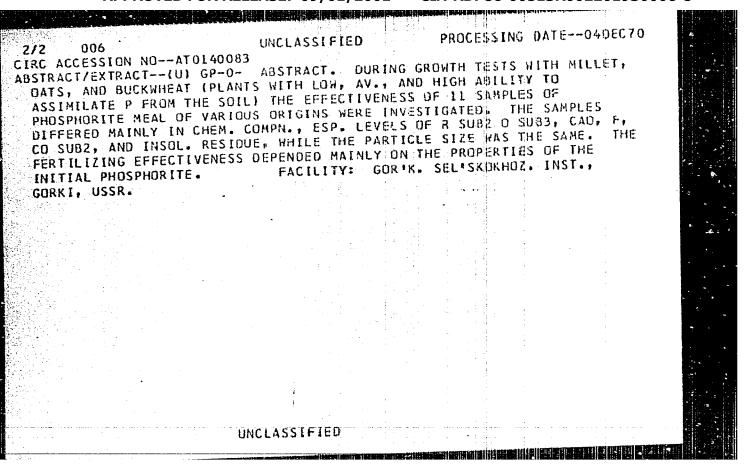
TOPIC TAGS--CEREAL CROP, PHOSPHORUS FERTILIZER, PARTICLE SIZE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO---FD70/605009/009 STEP NO--UR/3275/70/000/002/0017/0019

CIRC ACCESSION NO--AT0140083:

UNCEASSIFIED



USSR UDC 616.155.392-036.11-07:[616.157+616.419]-078

KAGAN, G. Ya., GOLOSOVA, T. V., MARTYNOVA V. A., CHUMAKOVA, L. P., KOPTELOVA, Ye. I., and RASKOVA, T. M., Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Sciences USSR, and Central Institute of Hematology and Blood Transfusion

"Isolation and Identification of Microbial Agents From Bone Marrow and Blood of Acute Leukemia Patients"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 9, 1971, pp 72-76

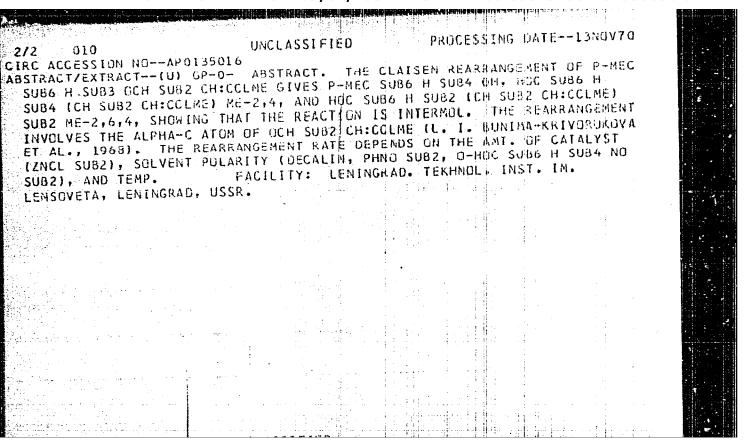
Abstract: Four types of microorganisms can be isolated directly from blood and bone marrow of acute leukemia patients. Two of them are streptomicrococci and diphtheria-like microbes unlike the classical streptococci and diphtheroids. They are probably altered variants of the patient's microflora. Microbial agents of the third type are either a phase of induction of the L-form in the patient's body or a phase of bacterial reversion from the L-form. Polymorphic agents of the fourth type resemble the Mycoplasmataceae in several respects and they can be tentatively regarded as "mycoplasma-like" organisms.

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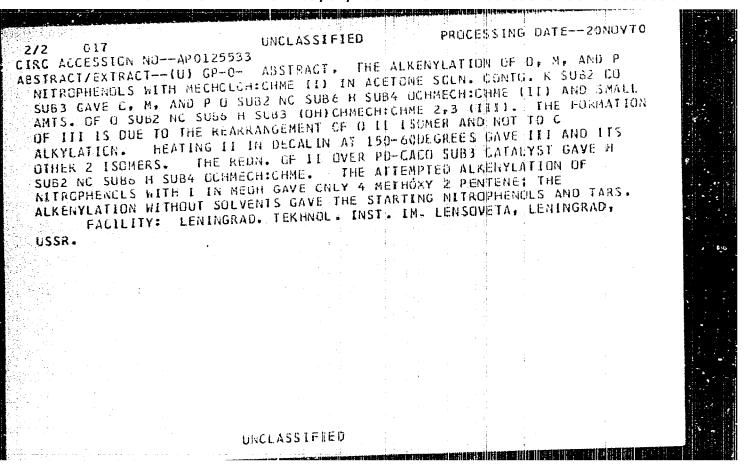
UNCLASSIFIED PROCESSING DATE--13NGV70 FITLE--CONDENSATION OF AROMATIC COMPOUNDS WITH ALLYL TYPE HALLOES. X. CATALYTIC ALPHA REARRANGEMENT OF 4, 3, CHLORD, 2, BUTENOXY, TOLUENE -U-AUTHOR-(04)-BUNINAKRIVORUKOVA, L.I., YAGODIN, V.G., MARTYNOVA, V.P., BALYAN, KH.V. COUNTRY OF INFO--USSR SOURCE-ZH. ORG. KHIM. 1970, 6(5), 991-5 编码标识计 DATE PUBLISHED----70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--ZINC CHEGRIDE, CATALYST, CONDENSATION REACTION, TOLUENE, CHLORINATED ORGANIC COMPOUND CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0366/70/005/005/0991/0995 PROXY REEL/FRAME--3006/1342 CIRC: ACCESSION NO--APO135016 UNCLASSIFIED



PROCESSING DATE-- 20NOV70 UNCLASSIFIED' TITLE-CONDENSATION OF ARUMATIC COMPOUNDS WITH ALLYL HAUIDES. IX. ALKENYLATION OF NITROPHENOLS BY 4 CHLORO Z PENTENE -U-AUTHOR-(03)-MARTYNOVA, V.P., BUNINAKRIVORUKOVA, L.I., BALYAN, KH.V. CCUNTRY OF INFO-USSR SOURCE-ZH. GRG. KHIM. 1970, 6(4), 775-81 DATE PUBLISHED ----- 70 SUBJECT AREAS-CHEMISTRY TOPIC TAGS--ORGANIC NITRO COMPOUND, PHENOL, CHLORINATED ORGANIC COMPOUND, ALKYLATION, CHEMICAL REDUCTION, CATALYST, PALLADIUM CENTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0366/70/006/004/0775/0781 PROXY REEL/FRAME--2000/1944 CIRC ACCESSION NO--AP0125533

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

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USSR

UDC: 911.3.616.831-002

BAROYAN, O. V., MEDVEDEVA, G. I., SHATKIN, A. A., PICHUSHKOV, A. V., BESKINA, S. R., ARUTYUNOVA, I. A., MARTYNOVA, V. R.

"Immunological-Epidemiological Research on Tick-Borne Encephalitis"

V sb. Materialy XV Vses. s'ezda epidemiologov, mikrobiologov i infektsionov, tezisy dokl. Ch. I (Proceedings of the 15th All Union Conference of Epidemiologists, Microbiologists and Specialists in Infectious Disease, Thesis Reports Part I -- collection of works) Moscow, 1970, pp. 186-187 (from RZh-36. Meditsin-skaya geografiya, No 1, Jan 71, Abstract No 1.36.86)

No abstract/

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

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RAZIN, K. A., Candidate of Technical Sciences, METLITSKIY, R. S., KABIN, Yu. Ya., LYUBESHKIN, V. P., AND MARTYNOVA. Ye. Ye., Engineers

"The Densimeter of the "Venera-5" and "Venera-6" Space Stations"

Pribory i Sistemy Upravleniya, No 10, 1971, pp 39-40.

Abstract: A description, drawing, block diagram, schematic diagram and photograph are presented of the densimeter used on the "Venera-5" and "Venera-6" spacecraft. The device is based on the method of measurement of gas density consisting in that a body is placed in motion in the medium whose density is to be measured and the aerodynamic resistance or drag of the gas, which is a function of density, is determined. In the vibration densimeter described, the moving bodies consisted of the arms of a continually excited tuning fork. The oscillating amplitude of the arms was inversely proportional to the aerodynamic drag, and the high Q of the tuning fork allowed good sensitivity of the device to be achieved. The device can measure densities from 0.5 to 45 kg/m<sup>3</sup> in the 0-350°C temperature interval with an error of not over ±10%. Its indications are independent of gas composition. Calibration of the densimeter is described. As the example of the operation of the densimeter, tables are presented of the measurement data produced from the "Venera-5" spacecraft as it descended on Venus.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

UDC 911.3.61.001.8

MARTYNOVA, Z. I., and KUDOYAROVA, I. Ya.

"A Survey of the Use of Maps in Studying Parasitic Diseases. An addition to the Development of Medical Cartography"

V sb. Vopr. Med. Parazitol. (Problems in Medical Parasitology -- collection of works), Moscow, 1970, pp 182-192 (from RZh-36. Meditsinskaya geografiya, No 1, Jan 71, Abstract No 1.36.9)

Translation: An analysis is presented of nosogeographical maps designed and used for the study of the geography of parasitic disease. Approximately 400 such maps of the text and atlas type, all charted by USSR parasitologists, were studied. One of the first maps was one showing the distribution of maleria in Finland for 1830-1832. The Russian and Soviet contribution to this field has been great; particularly distinguished pioneers are N. Toropov, V. Stoletov, and A. Leontovich. A formulation is given for the significance of cartography as a research method in the geography of disease. A subject classification of these maps is suggested. Eight map groups are characterized: 1) survey maps of disease areas without consideration of their inner structure; 2) maps of disease area structures; 3) maps of disease vectors; 4) maps of the seasonal prevalence of medical phenomena; 5) historical

MARTYNOVA, Z. I., and KUDOYAEOVA, I. Ya., V sb. Vopr. Med. Parasitol. (Problems in Medical Parasitology — collection of works) Moscow, 1970, pp 182-192 (from RZh-36. Meditsinskaya geografiya, No l, Jan 71, Abstract No 1.36.9)

nosogeographical maps; 6) maps showing planning of counter-measures against infection; 7) nosoprognostic maps; 8) district division maps. A total of 393 nosogeographic maps are classified according to content form of illustration and disease. It was found that the mosoprognostic maps were most prevalent (176); the most frequent method of chart illustration was flagging (181) and nosological spectrum (107); and the most frequent map content was malaria distribution (163). A critical analysis was made of representational methods to convey medical information on maps. For purposes of research and practice, the most valuable maps are those showing the relation between disease and the environment in a way that facilitates prognosis about the future development of epidemics in similar territories. The pressing problems in medical mapping were defined as: the construction of a series of maps on the structure of disease areas for basic parasitic illnesses, and extending the subject matter of complex medico-geographic maps in geographical atlases. It would be useful to include medico-geographic maps in 2/3

USSR

MARTYNOVA, Z. I., and KUDOYAROVA, I. Ya., V sb. Vopr. Med. Parazitol. (Problems in Medical Parasitology -- collection of works), Moscow, 1970, pp 182-192 (from RZh-36. Meditsinskaya Geografiya, No 1, Jan 71, Abstract No 1.36.9)

regional atlases as well as epidemiological division of districts, as these are constructs of medico-geographical assessment of the territory.

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uno 621.382.5

MARTYNOVSKIY, V.S., NAYER, V.A., KHIRICH, I.YA., KRAVCHENIC, P.N.

Low-Temperature Thermoelectric Microrefrigerator

V sb. Niskotemperaturn. termoelektrich.materialy (Low-Temperature Thermoelectric Materials-Collection Of Works). Fishinev, 1970, pp 165-168 (from RZh-Elektronika i yeys primeneniye, No 5, May 1971, Abstract No 58191)

Translation: The construction is described of a 3-stage thermoelectric micro-refrigerator. Electric power supply of the thermopile was accomplished by a circuit with current splitting. Consumable power did not exceed 20 watt. The device makes it possible to reduce the temperature to 122 degrees with a heat transfer temperature of 3030 K. 2 ill. 1 tab. 2 ref. Author's Abstract.

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PROCESSING DATE--11SEPTO UNCLASSIFIED TITLE--OPTIMIZATION OF DESIGN OF THERHOELECTRIC COOLING BATTERIES -U-1/2 027

AUTHOR--MARTYNOVSKIY, V.S., SEMENYUK, V.A., TOMASHEVICH, M.N.

COUNTRY OF INFO--USSR

SOURCE--MOSCOW, KHOLODIL NAYA TEKHNIKA, NO 2, 1970, PP 31-35

DATE PUBLISHED ----- 70

SUBJECT AREAS--ENERGY CONVERSION (NON-PROPULSIVE), PHYSICS

TOPIC TAGS--THERMOELECTRIC COOLING, THERMO BATTERY, HEAT TRANSFER THEORY, CONVECTIVE HEAT TRANSFER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1987/1408

STEP NO--UR/0066/70/000/002/0031/0035

CIRC ACCESSION NO--APO104722 UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

PROCESSING DATE--11SEP70 UNCLASSIFIED 027 2/2 CIRC ACCESSION NO--APO104722 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IT IS SHOWN THAT ONE OF THE POSSIBILITIES FOR INTENSIFICATION OF HEAT EXCHANGE IS A DISPERSAL OF THERMOELEMENTS WHICH CONSIDERABLY INCREASES THE AREA OF THE RIBBING BASE AND DECREASES HARMFUL TEMPERATURE DROPS BETWEEN JUNCTIONS AND MEDIA. DESIGN RATIOS ARE GIVEN FOR DENSITIES OF HEAT CURRENTS ON JUNCTIONS OF THERMOBATTERIES. SINCE THE OPTIMUM DEGREE OF DISPERSAL OF THERMDELEMENTS CANNOT BE DETERMINED THEORECTICALLY IN A GENERAL FORM, A METHOD OF EXPERIMENTAL DETERMINATION OF THE OPTIMUM DENSITY OF PACKING FOR THE CASE OF NATURAL CONVECTION WAS USED. AN OPTIMUM DESIGN OF THE MODULE FOR A REFRIGERATOR WITH CONVECTIVE COOLING OF HOT JUNCTIONS WAS THREE ILLUSTRATIONS SEVEN REFERENCES. FOUND. ONE TABLE. UNCLASSIFIED

Acc. Nr: 40044190

Ref. Code: UR 0016

PRIMARY SOURCE:

Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, 1970, Nr 2, pp 62-67

DIAGNOSTIC SIGNIFICANCE OF INTRADERMAL ALLERGIC TEST IN LISTERIOSIS

Yegorova, A. P., M. Ya. Martynshin, A. N. Malyshev

A lyzate of agar culture of Listeria was used as an allergen. Intradermal test was made in 278 persons; of this number 18 were suffering from bacteriologically confirmed listeriosis, 116 were pregnant women with suspected listeriosis, 97 healthy persons, and 47 patients with diseases of various (not caused by Listeria) etiology. Besides, scrological examination (reaction of agglutination and complement fixation) before and after the intradermal test, was carried out. Analogous investigations were performed on experimental animals.

A conclusion was drawn on the possibility of utilization of an allergic test for diagnostic purpose. The required eegree of sensitization occurred only in half of listeriosis patients. It is considered that allergic reactions in the form of hyperemia and edema of the skin not less than 20 mm in diameter, developing in 24 hours and not disappearing by 48 hours may be of diagnostic significance. The absence of reaction in response to the allergen gives no grounds for excluding listeriosis. Weak reactions may be taken into consideration only in the presence of convincing data of serological examination — high antibody titres or their distinct growth.

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Aerosols

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upc 615.453.28.014.23.002.5

MAR'YASIN, B. YA., NAZHESTKIN, K. P., MARTYNISEVA, M. N., and TSETLIR, Y. M., All Union Scientific Research Institute of Medical Folymers, All Union Scientific Research Institute of Disinfection and Sterilization, Moscow

"Investigation of Sprayers for Aerosol Cylinders"

Moscow, Khimiko-Farmatsevticheskiy Zhurnal, Vol 6, No 1, Jan 72, pp 39-42

Abstract: Nitrogen is often used as a propellant in forming aerosol preparations. To use it effectively, special atomizers are required as nitrogen is insoluble in most solvents and is being used only to propell the product out of the cylinders. The basic working unit in such atmoizers is a centrifugal sprayer with feeding channels. The centrifugal forces pross the product against the walls of the sprayer producing a thin film which breaks down into fine droplets — the aerosol particles. Data used for calculations of centrifugal sprayer parameters include liquid utilization per second, pressure, viscosity, and base angle of the jet. When a finely dispersed aerosol is required, the angle must be increased. Most calculations used in constructing the sprayers are assuming constant pressure which is not the case under real conditions, as the pressure in the cylinders drops continuously. The jet angle becomes smaller with a decrease in the pressure inside the cylinder; this effect 1/2

MAR'YASIN, B. YA., et al., Khimiko-Farmatsevticheskiy Zhurnal, Vol 6, No 1, Jan 72, pp 39-42

is quite strong at pressures below 3 atms. The relationship between the length of the stream and the pressure is more complex: it decreases continuously as the pressure drops to 3-3.5 atms., then it begins to increase again. The diameters of the particles increase linearly, as the pressure is dropped. The crucial points occur at about 3 atm pressure, so the aerosol cylinders should be constructed in a way assuring a final pressure of 3 atms.

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WC 517.933

MARTYNYUK, A. A. (Riev), Institute of Mathematics, Academy of Sciences, Ukrainian SSR

"The Method of Averaging and the Principle of Comparison in the Technical Theory of the Stability of Hotion"

Kiev, Prikladnaya Mekhanika, Vol 7, No 9, Sep 71, pp 64-69

Abstract: In the article is investigated the technical stability of the motion of systems containing a small parameter in standard form. By means of differential inequalities for a locally large Lyapunov function, constructed for an averaged system of equations, are proven the thereems of the technical stability of motion. Conceptions of quasi-compressed and compressed technical stability of systems with a small parameter are introduced, and the corresponding theorems are proved. The introduced concepts and theorems make it possible to estimate the behavior of integral curves on a given interval in finite regions of phase space. Five references.

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UNC 531.36

MARTYNUK, A. A., Institute of Mathematics, Academy of Sciences, Ukrainian SSR

"Instability of the Equilibrium Position of a Multidimensional System Consisting of 'Neutrally' Unstable Subsystems"

Kiev, Prikladnaya Mekhanika, No 6, Jun 72, pp 77-82

Abstract: Consideration is given to the instability of the equilibrium position of a multidimensional system, consisting of uniform subsystems, when all the subsystems are only "neutrally" unstable. The investigation is conducted by means of Lyapunov's second method, and by Mitropol'skiy's method of averaging in nonlinear mechanics. The instability of the multidimensional system is determined by the properties of the average of the product of the Lyapunov-function gradient of a subsystem, by a vector function which takes the connection of the subsystems into account. Theorems of the Lyapunov and Chetayev type concerning the instability of a multidimensional system are presented, and a method for applying Lyapunov's perturbed function for stability problems of this kind is announced. 7 references.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

USSR

UDC 665.52

ZHURBA, A. S., SMOL'NIK, Yu. Ye. (deceased), BRYANSKAYA, E. K., and MARTYNYUK, A. D., All Union Scientific Research Institute of Petrochemistry

"Production of Jet Fuel With Improved Qualitative Properties"

Kiev, Neftyanaya i Gazovaya Promyshlennost'", No 4, 1973, pp 36-38

Abstract: Hydrogenation conditions for kerosene fractions 130-180, 130-240 and 180-240°C over aluminum-platinum catalyst AP-56 were investigated. It was established that at 40 atm and 300°C the degree of conversion of moro and bicyclic aromatic hydrocarbons is 90%. The hydrogenation product should be used as the low aromatic component for the production of commercial reactive fuel by mixing it with straight distillate.

1/1

- 57 -

UDC 541.67 + 547.558.1

PEN'KOVSKIY, V. V., YEGOROV, Yu. P., YURCHENKO, R. I., and MARTYNYUK, A. P., Institute of Organic Chemistry, Academy of Sciences Ukradnian SSR

"Electron Transfer From Phosphazoarenes to Acceptor Molecules"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 12, Dec 73, pp 2639-2642

Abstract: In the reactions of phosphazoarenes with tetracyanoethylene and chloranil an electron transfer takes place from the phosphazoarene molecule to the electron accepting one. The stable anion radicals formed have been observed by means of EPR. The concentration of paramagnetic centers in the systems studied increases with growing alkalinity of the phosphazo compounds.

1/1

UDC 547.419.1

ZHMIROVA, I. N., MARTYNYUK, A. P., and KIRSANOV, A. V., Institute of Organic Chemistry, Acad. Sc., Ukrainian SSR

"Triphenylphosphazophenols"

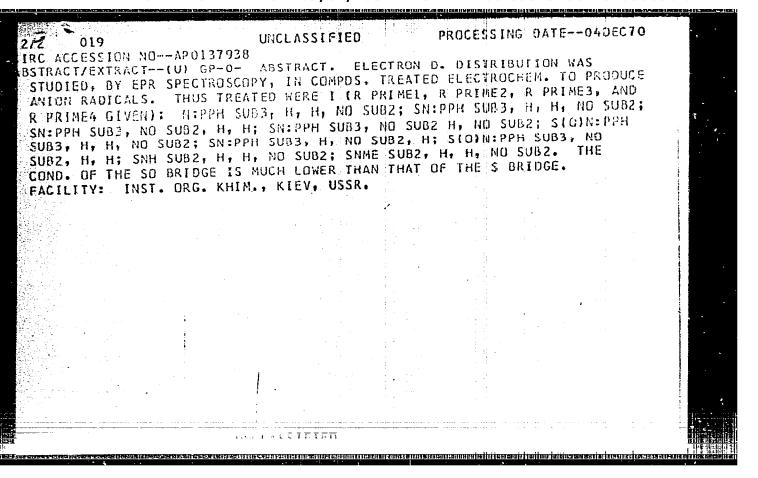
Leningrad, Zhurnal Obshchey Khimii, Vol 41 (103), No 4, Apr 71, pp 782-784

Abstract: Reaction of triphenylphosphine (I) with azidophenols yields triphenylphosphazophenols. To a solution of 0.01 g-mole of azidophenol in 15-20 ml benzene a solution of 0.01 g-mole of (I) in 10 ml benzene was gradually added. The product either precipitated at the completion of the reaction or after removal of the solvent followed by treatment with ethanol. 'These compounds are stable to cold water and dilute mineral acids but are easily hydrolyzed with bases. Triphenylphosphazophenols are stronger bases than the corresponding aminophenols. In a solution of glacial acetic acid oand p-quinoneazides are converted to diazonium acetates which, when treated with sodium azide, yield azidophenols.

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ZHMUROVA, I. N., YURCHENKO, V. G., MARTYNYUK, A. P., and KIRSAHOV, A. V., Institute of Organic Chemistry, Academy of Sciences, UkrSSR

"Effect of the Substituents at the Phosphorus Atom on the Auxochromic Action of the Phosphazo Group. II"

Leningrad, Zhurnal Obshchey Khimii, Vol 42 (104), No 9, Sep 72, pp 1948-1953

Abstract: On the basis of a series of phosphazobenzenes and phosphazoazobenzenes it was shown that introduction of electron donor substituents onto phenyl radicals of the triphenylphosphazo group had practically no effect on its auxochromic action.

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ZHMURCVA, I. N., YURCHENKO, R. I., and MARTYNYUK, A. P., Institute of Organic Chemistry, Academy of Sciences, Ukrainian SSR

"The Effect of Substituents at the Phosphorus Atom on the Auxochromic Activity of the Phosphazo Group. III"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 5, May 73, pp 1040-1043

Abstract: The group  $(C_6H_5)_2[(C_6H_5)_3P=N]P=N$  is a stronger auxochromic agent than  $(C_6H_5)_2[(CH_3)_2N]P=N$  or  $(C_6H_5)_3P=N$ . The effect of the dimethylamino group on the electron-donating properties of the P=N bonds is diminished in comparison with its electron donating effect  $(\mathcal{O}_{\mathcal{P}})$ . The increase in the auxochromic activity due to the substitution of one phenyl group by a triphenylphosphano group is due evidently to the specific structure of the auxochrom  $(C_6H_5)_2$  [ $(C_6H_5)_2P=N''$ ]=N'. Two interconverted phosphano groups contain the bond system P-N-P within which a uniform distribution of electron density is possible.

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UDC 541.67 + 547.558.1

PEN'KOVSKIY, V. V., YEGOROV, YU P., ZHMUROVA, I. N., MARTYHYUK, A. P., and SHURUBURA, A. K., Institute of Organic Chemistry, Acad. Sc. UkrSSR, Kiyev

"Distribution of Electronic Density in Anion Radicals Containing Triarylphosphazo Groups"

Kiyev, Teoreticheskaya i Eksperimental'naya Khimiya, Vol 9, No 1, Jan-Feb 73, pp 112-116

Abstract: Eight anion radicals of the type  $(p-RC_6H_4)_2(p-R^1C_6H_4)P:N-C_6H_4NO_2-p$  generated by the electrochemical method in acetonitrile have been studied by means of EPR. In all cases a split was noted on the p3l nucleus indicating  $\pi$ -electronic interaction of the P:N group with p-nitrophenyl residue of the anion radical. This effect can be explained only on the basis of  $d\pi$ - $p\pi$  interaction. The effects of various electron donor and electron acceptor R and R' on the distribution of spin density has been compared. Qualitative explanation of this effect has been proposed based on the mobility of  $\pi$ -electrons of the imino nitrogen and a direct polar conjugation of the phosphazo group with the nitro group. The values of the splitting constants at the p3l nucleus are not correlated with the G-constants of R and R'.

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1/2 025 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--ELECTRICAL RESISTANCE OF COPPER CONDUCTORS DURING PULSED HEATING

AUTHOR-(02)-MARTYNYUK, M.M., GANZHELA, N.F.

COUNTRY OF INFO--USSR

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201930006-8"

PROCESSING DATE--27NOV70 UNCLASSIFIED 025 2/2 CIRC ACCESSION NO--AT0130422 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE DEPENDENCE OF THE RESISTANCE OF CU WIRES ON THE ENERGY DURING PULSED HEATING WAS DETD. BY THE OSCILLOGRAPHIC METHOD. THE RESULTS WERE COMPARED WITH THOSE OFTAINED BY DIRECT MEASUREMENTS. THE CURRENT PULSES WHICH ARISE DURING THE ELEC. EXPLOSION OF WIRES DURING RAPID HEATING AND WHICH EXCLUDE THE RUPTURE OF THE WIRE ARE EXPLAINED BY THE PASSAGE OF THE METAL THROUGH THE UPPER LIMIT FOR THE EXISTENCE OF A LIQ. METAL PHASE, SPINDOAL CRIT. CURRENT QUASISPINODAL. IN THIS CASE, PRECRIT., CRIT., OR POSTCRIT. CONVERSION OF THE METAL INTO THE GAS PHASE CAN TAKE PLACE, DEPENDING ON THE FACILITY: UNIV. DRUZHBY NAR. IM. LUMUMBY, EXTERNAL PRESSURE. MOSCOW, USSR. UNCLASSIFIED